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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/975,343	10/11/2001	Akira Ishikawa	06837-123002	1181
7	590 05/22/2002			
SEAN P. DA	LEY		EXAM	NER
Fish & Richard 225 Franklin S	treet	RESAN, STEVAN A		
Boston, MA 0	02110-2804		ART UNIT	PAPER NUMBER
			1773	Q 2
			DATE MAILED: 05/22/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.





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Office Action Summary	09/9-	75,343	LOCH	161 etc			
Office Action Gainmai y	Examiner	RESAU	`	Group Art Uni	t		
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eri dfr Reply							
SHORTENED STATUTORY PERIOD FOR REPLY IS SET FEBRUARY FOR THE STATUTORY.	TO EXPIRE_	3	MONTH(S)	FROM THE N	IAILING DATE		
 Extensions of time may be available under the provisions of 37 CFF from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a If NO period for reply is specified above, such period shall, by defau Failure to reply within the set or extended period for reply will, by st 	reply within the studt, expire SIX (6)	tatutory minimi MONTHS from	um of thirty (30) the mailing date	days will be consi	dered timely.		
tatus							
☐ Responsive to communication(s) filed on					 .		
☐ This action is FINAL .							
☐ Since this application is in condition for allowance exce accordance with the practice under <i>Ex parte Quayle</i> , 19				the merits is (closed in		
isp siti n of Claims							
(2) Claim(s)			is/are p	ending in the a	application.		
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Art Unit: 1773

DETAILED ACTION

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1, 2, 4, 7-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claims are deemed undefined due to the following: Claim 1 - claims a resin layer serving as a non-recording surface - however servo indicia for tracking are considered recorded information: The examiner suggests "non-magnetic recording surface."

Claim 1 - "a region" and "the other major region". Is "a region" a "major region"?

The examiner suggests the use of "first" and "second" region terminology.

Claim 2 - "other major region" (see above); "prescribed" wavelength. "prescribed" is deemed indefinite and speculative.

Claim 4 "said layer containing coloring matter" has no antecedent basic in claim 2 from which it depends; "prescribed" (see above).

Claim 7 - thin layer - "thin" is a relative term; "said layer containing coloring matter" has no antecedent basis in claims 4 or claim 2 from which it depends.

Claim 8 - "thin layer" "low melting point".

These are relative terms.

Claim 9 - "thin layer"

Claim 10 claims substantially the same invention as in claim 1.

3. The attempt to incorporate subject matter into this application by reference to the Japanese priority documents is improper because only US patents and allowed applications may be incorporated by reference.

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- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

 Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1,2,3,10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wallack US 5,589,247.

Wallack et al disclose the invention substantially as claimed except for the tape having a thickness of 7um or less. However, the combined preferred thickness range of Wallack et al for the substrate, magnetic layer and blackcoat layer overlap the range of 7um or less. It would have been obvious to one of ordinary skill in the art to minimize tape thickness in order to maximize the amount of information on a given diameter tape reel. The limitation "for servo tracking has been treated as an intended use and given no weight.

- 6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

 A person shall be entitled to a patent unless --
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Art Unit: 1773

7. Claims 1, 3, 4, 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Evans et al U.S. 5,462,823.

See Fig. 2b, page 4, line 18, page 5, para. 2.

8. Claims 2, 5, 6, 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Evans et al as applied above and discussed below.

Evans et al do not disclose the differences in reflections or transmission as in claim 2, however it would have been obvious to one of ordinary skill in the art to maximize contrast between illuminated and non illuminated regions (See col. 5, lines 37-40).

Evans et al do not disclose the coefficient of friction on the non-magnetic recording side. However, Evans disclose the use of lubricants in or on the magnetic recording media side. Since these lubricants are intended to minimize the coefficient of friction for the magnetic layer and will transfer to the non-magnetic recording side of a tape when wound. The examiner takes the position that the transferred lubricant would also inherently lower the coefficient of friction of the non-magnetic recording side. It would have been obvious to one of ordinary skill in the art to minimize friction on both sliding surfaces since the non-magnetic recording side must transverse and contact guide pins.

Evans does not disclose a backcoating layer serving as an outermost layer containing binder and inorganic powder. However, Evans discloses the alternative use of radiation absorbing dye as for generating or destroying an image. When an image is generated, it would have been obvious to one of ordinary skill in the art to protect it from degeneration due to generalized exposure to light and therefor employ a protective coating to filter the more destructive short wavelengths of light.

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Claim 9 appears within the normal range of dimention of an optical servo track. It would have been obvious to one of ordinary skill in the art to adjust the servo track dimension depending upon the servo beam tracking equipment used.

- 9. Claim 8 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stevan A. Resan whose telephone number is (703) 308-4287. The examiner can normally be reached on Tuesday-Thursday from 7:30 a.m. to 6:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Thibodeau, can be reached on (703) 308-2367. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-5436.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-2351.

S.A. Resan

April 5, 2001

STEVAN A. RESAN PRIMARY EXAMINER